

CLAIMS

1. A filter assembly for a fuel checker, said filter assembly, comprising:
  - a) a filter housing, including a fuel receiving end portion and a fuel exiting end portion, said fuel receiving end portion being shaped to securely attach to a fuel checker, said filter housing defining a volume for containing checked fuel;
  - b) a screen assembly securely attachable to said fuel exiting end portion, said removable screen assembly, comprising:
    - i. a flexible screen housing; and,
    - ii. a filter screen supported by said flexible screen housing, said filter screen being a barrier to water and desired particulate debris;
  - c) a first protective cap for fitting over said fuel receiving end portion for containing evaporative fumes while the filter assembly is being stored; and,
  - d) a second protective cap for fitting over said removable screen assembly and protecting said screen when the filter assembly is being stored.
2. The filter assembly of Claim 1 wherein said fuel checker is of a type that includes a slightly recessed outer surface on an upper end portion thereof,  
said fuel receiving end portion including an annular interior surface thereon for cooperating with said recessed outer surface of said fuel checker and providing a friction fit therewith to allow said fuel receiving end portion to be slidably mounted on said upper end portion of said fuel checker.
3. The filter assembly of Claim 1 wherein said fuel checker is of a type that includes a slightly recessed outer surface on an upper end portion thereof, the recessed outer surface being of substantially circular cross-section,  
said fuel receiving end portion having a substantially circular cross-section and including an annular interior surface with a substantially circular cross-section thereon for cooperating with said recessed outer surface of said fuel checker and providing a friction fit therewith to allow said fuel receiving end portion to be slidably mounted on said upper end portion of said fuel checker.
4. The filter assembly of Claim 1 wherein said fuel checker is of a type that includes a slightly recessed outer surface on an upper end portion thereof of substantially circular cross-section,

- a) said fuel receiving end portion having a substantially circular cross-section and including an annular interior surface thereon for cooperating with said recessed outer surface of said fuel checker and providing a friction fit therewith to allow said fuel receiving end portion to be slidably mounted on said upper end portion of said fuel checker, and
  - b) said fuel exiting end portion having a cross-sectional area larger than said fuel receiving end portion.
- 5. The filter assembly of Claim 1, further comprising a first protective cap connecting member for attaching said first protective cap to said filter housing.
  - 6. The filter assembly of Claim 1, further comprising a second protective cap connecting member for attaching said second protective cap to said removable screen assembly.
  - 7. The filter assembly of Claim 1 wherein said fuel receiving end portion is substantially narrower than said fuel exiting end portion to maximize the cross-sectional area of said filter screen.
  - 8. The filter assembly of Claim 1 wherein said fuel exiting end portion is tapered to have an increasing cross-sectional area toward a distal end thereof to maximize the cross-sectional area of said filter screen.
  - 9. The filter assembly of Claim 1, wherein said filter screen comprises stainless steel material.
  - 10. The filter assembly of Claim 1, wherein said filter screen provides particulate debris filtration to approximately 120 microns.
  - 11. The filter assembly of Claim 1, wherein said filter housing is fabricated of transparent molded material.
  - 12. The filter assembly of Claim 1 wherein said fuel checker is of a type that includes a slightly recessed outer surface on an upper end portion thereof,  
said fuel receiving end portion including an annular interior surface thereon including a step for cooperating with said recessed outer surface of said fuel checker and providing a friction fit therewith to allow said fuel receiving end portion to be slidably mounted on said upper end portion of said fuel checker.

13. The filter assembly of Claim 1 wherein said fuel checker is of a type that includes a slightly recessed outer surface on an upper end portion thereof,

said fuel receiving end portion including an annular interior surface thereon including a step for cooperating with said recessed outer surface of said fuel checker and providing a friction fit therewith to allow said fuel receiving end portion to be slidably mounted on said upper end portion of said fuel checker, said annular interior surface further including a stop for cooperating with an end of said fuel checker to prevent longitudinal movement thereof.

14. The filter assembly of Claim 1, wherein said screen assembly is removable.